



5551

# IGNITRON SIZE B

5551

DATA

## General:

Peak Voltage Drop. . . . . 12 volts  
 Cooling:  
   Type . . . . . Water  
   Minimum Flow . . . . . 1 gallon/minute  
   Maximum Outlet Water Temperature . . . . . 40°C  
   Minimum Inlet Water Temperature . . . . . 10°C  
   Pressure Drop per tube, at Min. Flow . . . . . 1.6 lb./sq.in.  
   Temp. Rise at Minimum Flow (Average  
     current 40 amp/enode) Approx. . . . . 2°C  
 Mounting Position. . . . . Vertical, Flexible Lead Up  
 Max. Rigid Length (Approx.). . . . . 13-1/2"  
 Max. Diameter, including Cooling Connections . . . . . 5-3/4"

AC WELDER-CONTROL SERVICE\*

Ratings are for any voltage from 250 to 600 volts rms  
at frequencies from 25 to 60 cycles

## Maximum Ratings, Absolute Values:

DEMAND . . . . .	600 max.	kva
CORRESPONDING AVERAGE ANODE CURRENT. . . . .	30.2 max.	amp
AVERAGE ANODE CURRENT. . . . .	56 max.	amp
CORRESPONDING DEMAND . . . . .	200 max.	kve
TIME OF AVERAGING ANODE CURRENT:		
At 500 volts rms . . . . .	9 max.	sec
At 250 volts rms . . . . .	18 max.	sec
SURGE ANODE CURRENT. . . . .	■ peak	amp
PEAK POSITIVE IGNITOR VOLTAGE §. . . . .	{ 900 max.	volts
	{ 200 min.	volts
PEAK NEGATIVE IGNITOR VOLTAGE. . . . .	5 max.	volts
PEAK IGNITOR CURRENT § . . . . .	{ 100 max.	amp
	{ 30 min.	amp
AVERAGE IGNITOR CURRENT* . . . . .	1 max.	amp
IGNITION TIME §. . . . .	100 max.	μsec

CURVES FOR THE 5551 IN THIS CLASS OF SERVICE  
 ARE SHOWN UNDER TYPE 5550

INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles

## Maximum Ratings, Absolute Values:

PEAK FORWARD ANODE VOLTAGE . . . . .	500 max.	volts
PEAK INVERSE ANODE VOLTAGE . . . . .	500 max.	volts
PEAK ANODE CURRENT . . . . .	700 max.	amp
AVERAGE ANODE CURRENT# . . . . .	40 max.	amp
SURGE ANODE CURRENT for 0.15 sec. max.	8000 max.	amp

\*, ■, §, ●, #: See next page.

MAY 1, 1946

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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## IGNITRON

PEAK POSITIVE IGNITOR VOLTAGE § . . . . .	{ 900 max. volts
	{ 200 min. volts
PEAK NEGATIVE IGNITOR VOLTAGE. . . . .	5 max. volts
PEAK IGNITOR CURRENT § . . . . .	{ 100 max. volts
	{ 30 min. volts
AVERAGE IGNITOR CURRENT. . . . .	1 max. amp
IGNITION TIME §. . . . .	100 max. $\mu$ sec

\* Averaged over any 5-second interval.

# Averaged over any 3-second interval.

■ Must be limited to 280% of maximum rms demand current.

● RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.

§ Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignitor ignition time.